



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/831,142

Source: Pct 09

Date Processed by STIC: 5-23-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be downloaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/831,142

DATE: 05/23/2001
TIME: 16:03:42

Input Set : A:\WCM69US.app
Output Set: C:\CRF3\05232001\I831142.raw

62 <211> LENGTH: 852
 63 <212> TYPE: DNA
 64 <213> ORGANISM: Pholas dactylus
 66 <400> SEQUENCE: 3
 67 gtcggaaaag aacaaaatgg cttgtatcg tttcggtgct cttgtcgctc tatgcttaat 60
 68 gcaaccgggt tccggtgagg aagtacaatg cgcgatgaat tggacacaag ctaatgaata 120
 69 tgtgttcaac gtggactgga tgaccattt catctacgac tatggcgctc aagagcaact 180
 70 gtacgaggat cgggcttgg gcgtgtgtcg gattgaacgg gccggcccaag gtaccacaaa 240
 71 agccgtctgg attaactgga gtaacgacac gcagtcgt gtaacaagaa aaacaatctt 300
 72 cttcgagggtt ggtggagaaa ttgcccggct agttgactac agaccacagg aagacggaac 360
 73 tgagaaaact tttacaagaa aattctctag caaaaatgcca ggcacttaca tgcttatgga 420
 74 cgtgtgcgcct acaagggacg ctgatgataa atgcatcgaa ggcacaattt tggtgacagt 480
 75 cagggtgtcc ctatatgacg aagataacaa tggtgtaatg gatgaaggta aggttattcc 540
 76 atctgagaca atcgaggatg atatcaagaa ctgtgggctc ttagaccaag atgttgaact 600
 77 cgattatacg tggactcaaa acgagtgtga tctaccagac acagtagacg aggctgaaga 660
 78 cacaccgtca gaaaactggag aattcttctg gtagatctat cagaccactt ttatcagcag 720
 79 gacaactgggt cgttaccaga cacctataac gtgtcctcat caataatgtg taaaacagaa 780
 80 ataatcgata gaatattgaa aataaaatgt taatagacac tggttgaaaa aaaaaaaaaa 840
 81 aaaaaactcg ag 852
 84 <210> SEQ ID NO: 4
 85 <211> LENGTH: 225
 86 <212> TYPE: PRT
 87 <213> ORGANISM: Pholas dactylus
 89 <400> SEQUENCE: 4
 90 Met Ala Cys Ile Val Phe Val Ala Leu Val Ala Leu Cys Leu Met Gln
 91 1 5 10 15
 93 Pro Gly Ser Gly Glu Glu Val Gln Cys Ala Met Asn Trp Thr Gln Ala
 94 20 25 30
 96 Asn Glu Tyr Val Phe Asn Val Asp Trp Met Thr Ile Phe Ile Tyr Asp
 97 35 40 45
 99 Tyr Gly Ala Gln Glu Gln Leu Tyr Glu Asp Arg Ala Leu Gly Leu Cys
 100 50 55 60
 102 Arg Ile Glu Arg Ala Gly Pro Gly Thr Thr Lys Ala Val Trp Ile Asn
 103 65 70 75 80
 105 Trp Ser Asn Asp Thr Gln Ser Cys Val Thr Arg Lys Thr Ile Phe Phe
 106 85 90 95
 108 Glu Val Gly Gly Glu Ile Ala Arg Leu Val Asp Tyr Arg Pro Gln Glu
 109 100 105 110
 111 Asp Gly Thr Glu Lys Thr Phe Thr Arg Lys Phe Ser Ser Lys Met Pro
 112 115 120 125
 114 Gly Thr Tyr Met Leu Met Asp Val Cys Ala Thr Arg Asp Ala Asp Asp
 115 130 135 140
 117 Lys Cys Ile Glu Gly Thr Ile Val Val Thr Val Arg Val Ser Leu Tyr
 118 145 150 155 160
 120 Asp Glu Asp Asn Asn Gly Val Met Asp Glu Gly Lys Val Ile Pro Ser
 121 165 170 175
 123 Glu Thr Ile Glu Asp Asp Ile Lys Asp Cys Gly Leu Leu Asp Gln Asp
 124 180 185 190
 126 Val Glu Leu Asp Tyr Thr Trp Thr Gln Asn Glu Cys Asp Leu Pro Asp

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127	195	200	205
129	Thr Val Asp Glu Ala Glu Asp Thr Pro Ser Glu Thr Gly Glu Phe Phe		
130	210	215	220
132	Trp		
133	225		
136	<210> SEQ ID NO: 5		
137	<211> LENGTH: 205		
138	<212> TYPE: PRT		
139	<213> ORGANISM: Pholas dactylus		
141	<400> SEQUENCE: 5		
142	Glu Glu Val Gln Cys Ala Met Asn Trp Thr Gln Ala Asn Glu Tyr Val		
143	1 5 10 15		
145	Phe Asn Val Asp Trp Met Thr Ile Phe Ile Tyr Asp Tyr Gly Ala Gln		
146	20 25 30		
148	Glu Gln Leu Tyr Glu Asp Arg Ala Leu Gly Leu Cys Arg Ile Glu Arg		
149	35 40 45		
151	Ala Gly Pro Gly Thr Thr Lys Ala Val Trp Ile Asn Trp Ser Asn Asp		
152	50 55 60		
154	Thr Gln Ser Cys Val Thr Arg Lys Thr Ile Phe Phe Glu Val Gly Gly		
155	65 70 75 80		
157	Glu Ile Ala Arg Leu Val Asp Tyr Arg Pro Gln Glu Asp Gly Thr Glu		
158	85 90 95		
160	Lys Thr Phe Thr Arg Lys Phe Ser Ser Lys Met Pro Gly Thr Tyr Met		
161	100 105 110		
163	Leu Met Asp Val Cys Ala Thr Arg Asp Ala Asp Asp Lys Cys Ile Glu		
164	115 120 125		
166	Gly Thr Ile Val Val Thr Val Arg Val Ser Leu Tyr Asp Glu Asp Asn		
167	130 135 140		
169	Asn Gly Val Met Asp Glu Gly Lys Val Ile Pro Ser Glu Thr Ile Glu		
170	145 150 155 160		
172	Asp Asp Ile Lys Asp Cys Gly Leu Leu Asp Gln Asp Val Glu Leu Asp		
173	165 170 175		
175	Tyr Thr Trp Thr Gln Asn Glu Cys Asp Leu Pro Asp Thr Val Asp Glu		
176	180 185 190		
178	Ala Glu Asp Thr Pro Ser Glu Thr Gly Glu Phe Phe Trp		
179	195 200 205		
182	<210> SEQ ID NO: 6		
183	<211> LENGTH: 225		
184	<212> TYPE: PRT		
185	<213> ORGANISM: Pholas dactylus		
187	<400> SEQUENCE: 6		
188	Met Ala Cys Ile Val Phe Val Ala Leu Val Ala Leu Cys Leu Met Gln		
189	1 5 10 15		
191	Pro Gly Ser Gly Glu Glu Val Gln Cys Ala Met Asn Trp Thr Gln Ala		
192	20 25 30		
194	Asn Glu Tyr Val Phe Asn Val Asp Trp Met Thr Ile Phe Ile Tyr Asp		
195	35 40 45		
197	Tyr Gly Ala Gln Glu Gln Leu Tyr Glu Asp Arg Ala Leu Gly Leu Cys		
198	50 55 60		

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200 Arg Ile Glu Arg Ala Gly Pro Gly Thr Thr Lys Ala Val Trp Ile Asn
201 65 70 75 80
203 Trp Ser Asn Asp Thr Gln Ser Cys Val Thr Arg Lys Thr Ile Phe Phe
204 85 90 95
206 Glu Val Gly Gly Glu Ile Ala Arg Leu Val Asp Tyr Arg Pro Gln Glu
207 100 105 110
209 Asp Gly Thr Glu Lys Thr Phe Thr Arg Lys Phe Ser Ser Lys Met Pro
210 115 120 125
212 Gly Thr Tyr Met Leu Met Asp Val Cys Ala Thr Arg Asp Ala Asp Asp
213 130 135 140
215 Lys Cys Ile Glu Gly Thr Ile Val Val Thr Val Arg Val Ser Leu Tyr
216 145 150 155 160
218 Asp Glu Asp Asn Asn Gly Val Met Asp Glu Gly Lys Val Ile Pro Ser
219 165 170 175
221 Glu Thr Ile Glu Asp Asp Ile Lys Asp Cys Gly Leu Leu Asp Gln Asp
222 180 185 190
224 Val Glu Leu Asp Tyr Thr Trp Thr Gln Asn Glu Cys Asp Leu Pro Asp
225 195 200 205
227 Thr Val Asp Glu Ala Glu Asp Thr Pro Ser Glu Thr Gly Glu Phe Phe
228 210 215 220
230 Trp
231 225
234 <210> SEQ ID NO: 7
235 <211> LENGTH: 17
236 <212> TYPE: DNA
237 <213> ORGANISM: Pholas dactylus
239 <220> FEATURE:
240 <221> NAME/KEY: modified_base
241 <222> LOCATION: (3)
242 <223> OTHER INFORMATION: i
244 <400> SEQUENCE: 7

W--> 245 acnáthttyt tycargt

17

248 <210> SEQ ID NO: 8
249 <211> LENGTH: 17
250 <212> TYPE: DNA
251 <213> ORGANISM: Pholas dactylus
253 <220> FEATURE:
254 <221> NAME/KEY: modified_base
255 <222> LOCATION: (15) /
256 <223> OTHER INFORMATION: i "n" at position 12?

W--> 259 cargargarg anacnága

17

262 <210> SEQ ID NO: 9
263 <211> LENGTH: 17
264 <212> TYPE: DNA
265 <213> ORGANISM: Pholas dactylus
267 <220> FEATURE:
268 <221> NAME/KEY: modified_base
269 <222> LOCATION: (3) /

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Input Set : A:\WCM69US.app
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270 <223> OTHER INFORMATION: i
 272 <400> SEQUENCE: 9 "i" at position 6 ? 17
 W--> 273 tcngt~~tccyt~~ cytcytcg
 276 <210> SEQ ID NO: 10
 277 <211> LENGTH: 18
 278 <212> TYPE: DNA
 279 <213> ORGANISM: Pholas dactylus
 281 <220> FEATURE:
 282 <221> NAME/KEY: modified_base
 283 <222> LOCATION: (9) /
 284 <223> OTHER INFORMATION: i
 286 <400> SEQUENCE: 10 18
 W--> 287 ttyaaygtng aytggatg
 290 <210> SEQ ID NO: 11
 291 <211> LENGTH: 20
 292 <212> TYPE: DNA
 293 <213> ORGANISM: Pholas dactylus
 295 <400> SEQUENCE: 11
 296 acacagcccc aaagccccat 20
 299 <210> SEQ ID NO: 12
 300 <211> LENGTH: 20
 301 <212> TYPE: DNA
 302 <213> ORGANISM: Pholas dactylus
 304 <400> SEQUENCE: 12
 305 ttgcccccgt agttgactac 20
 308 <210> SEQ ID NO: 13
 309 <211> LENGTH: 24
 310 <212> TYPE: DNA
 311 <213> ORGANISM: Pholas dactylus
 313 <400> SEQUENCE: 13
 314 catattcaa ccagtgtta ttaa 24
 317 <210> SEQ ID NO: 14
 318 <211> LENGTH: 19
 319 <212> TYPE: DNA
 320 <213> ORGANISM: Pholas dactylus
 322 <400> SEQUENCE: 14
 323 caatttgtgcc ttcatgcg 19
 326 <210> SEQ ID NO: 15
 327 <211> LENGTH: 17
 328 <212> TYPE: DNA
 329 <213> ORGANISM: Pholas dactylus
 331 <400> SEQUENCE: 15
 332 ggactgtggg ctcttag 17
 335 <210> SEQ ID NO: 16
 336 <211> LENGTH: 20
 337 <212> TYPE: DNA
 338 <213> ORGANISM: Pholas dactylus
 340 <400> SEQUENCE: 16 20
 341 atggcttgta tcgtttcggt

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/831,142

DATE: 05/23/2001
TIME: 16:03:43

Input Set : A:\WCM69US.app
Output Set: C:\CRF3\05232001\I831142.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10